

**CLAIM(S)**

**What is claimed is:**

- 5           1.     A copper-based electrode powder, comprising:  
              copper powder;  
              cuprous oxide powder; and  
              lead germanate glass powder.
- 10           2.     The electrode powder of claim 1, wherein the electrode  
              powder comprises 84-100% by weight of the copper powder.
3.     The copper-based electrode powder of claim 2, further  
              comprising:  
                      nickel powder in an amount of up to 1% by weight of the  
15           copper powder.
4.     The electrode powder of claim 1, wherein the electrode  
              powder comprises less than 10% by weight of the cuprous oxide powder.
- 20           5.     The electrode powder of claim 1, wherein the electrode  
              powder comprises less than 5% by weight of the lead germanate glass  
              powder.
- 25           6.     The electrode powder of claim 1, comprising:  
              at least one of barium, strontium, calcium, magnesium,  
              manganese and zinc.
7.     The electrode powder of claim 1, comprising:  
              at least one of silicon, zirconium, tin or titanium.
- 30           8.     A screen-printing copper electrode composition, comprising:  
              the powder compositions of any of claims 1 through 7  
              dispersed in an organic vehicle.